

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-1001

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 2001 model-year Ford Motor Company Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Compressed Natural Gas (CNG)

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
1FMXH05.4CP5	5.4 (326)	Dual Three Way Catalytic Converters Three Way Catalytic Converter Dual Heated Oxygen Sensors Sequential Multiport Fuel Injection

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

<u>Non-methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.7	37.1	0.5

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

<u>Non-methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
0.1	6.7	0.1

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional lower-emission Oxides of Nitrogen standards pursuant to Title 13, California Code of Regulations, Section 1956.8(c)(1).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Sections 1965).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 15TH day of February 2001.



R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

E.O. # A-10-1001

2001 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY ENGINES

Manufacturer: Ford Motor Company

Engine Family: 1FMXH05.4CP5

Displacement: 5.4L / Liter

326 / Cubic Inches

All Eng Codes in Eng Family: CA 49S 50S X

Fuel Type(s): Dedicated X Flex Fuel Dual-Fuel Bi-Fuel Gasoline CNG X

LNG LPG M85 M100 Other (specify) ...

Maximum Rated Power: 225 HP @ 4500 RPM F-Series Incomplete Engine Configuration V-8

Exhaust Control System and Special Features 2TWC, TWC, 2HO2S, SFI
(Use abbreviations per SAE J1930 SEP91)

Engine Model (Engine Code)	Ign. System or PCM Part No. -12A650-	Fuel System Injtr Part No. -9F593-	Catalyst Part No. -5F250- -5E212-
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Initial Certification

1E414I0505

1C2A-AB

F5TE-BA

YC2C-AA (CC-LH/RH)
YC2C-AB (UB)

Engine Family: 1FMXH05.4CP5

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Issued: January 4, 2001

Revised: